

RECEIVED
CENTRAL FAX CENTER

MAR 12 2007

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1. (currently amended) A cooling system for electronic equipment enclosures with densely packed components comprising:

an electronic equipment enclosure; a rack mounted within said enclosure;

a plurality of boards mounted to said rack, at least one of said boards having a plurality of heat generating components mounted thereon;

a plurality of microscale cooling assemblies each one of said cooling assemblies being connected to one of said plurality of heat generating components, each cooling assembly including a heat insulative housing, an inlet port formed in said housing for receiving a heat transferring fluid, an outlet port formed in said housing for passing said heat transferring fluid, a thermally conductive element connected to said housing, an evaporator chamber formed by said housing and said thermally conductive element upstream of said outlet port and a capillary passage formed in said housing between said inlet port and said evaporator chamber;

a first intake manifold mounted to said rack;

a first exhaust manifold mounted to said rack;

a second intake manifold mounted to said board and to said first intake manifold;

a second exhaust manifold mounted to said board and to said first exhaust manifold;

a first fluid conduit connecting said board mounted second intake manifold and each of said plurality of cooling assemblies;

a second fluid conduit connecting said board mounted ~~first exhaust~~ second exhaust manifold and each of said plurality of cooling assemblies;

a compressor;

a third fluid conduit connecting said rack mounted first intake manifold and said compressor; and

a fourth fluid conduit connecting said rack mounted first exhaust manifold and said compressor.

2. (original) The system of claim 1 wherein:

said rack includes a rail; and

said plurality of boards are mounted to said rail.

3. (original) The system of claim 1 including:

a backplane connected to said rack; and wherein

said plurality of boards are mounted to said backplane.

4. (original) The system of claim 1 including:

a backplane connected to said rack; and

said first intake manifold and said first exhaust manifold are connected to said backplane.

5. (original) The system of claim 1 including:

a backplane connected to said rack; and wherein

said rack includes a rail;

said first intake manifold and said first exhaust manifold are connected to said backplane; and

said plurality of boards are mounted to said rail and to said backplane.

6-14. (canceled)